

CLAIM AMENDMENTS

1 1. (Original) A method for storing multimedia information on a medium, comprising:
2 receiving encoded packets of the multimedia information, a subset of the encoded packets
3 including timing information arriving at least every predetermined time period;
4 adding storage timing fields to respective corresponding encoded packets;
5 when a corresponding encoded packet does not include the timing information, storing a
6 value from a timing generator into a given storage timing field;
7 when the corresponding encoded packet includes the timing information, storing a value
8 from the timing information of the corresponding encoded packet into the given storage timing
9 field and resetting the value in the timing generator; and
10 storing the corresponding encoded packet onto the medium.

1 2. (Original) The method of claim 1, wherein the received encoded packets are in an
2 MPEG2 format.

1 3. (Original) The method of claim 1, wherein the storage timing field includes a 42 bit
2 timing value.

1 4. (Original) The method of claim 1, wherein the predetermined time period is 100
2 milliseconds.

1 5. (Original) The method of claim 1, wherein the resetting of the value in the timing
2 generator comprises setting the timing generator to the value in the timing information.

6-10. (Cancelled)

1 11. (Currently Amended) An apparatus for storing multimedia information on a
2 medium, comprising:
3 a storage area for storing a received encoded packet of a plurality of encoded packets, the
4 encoded -packets including the multimedia information, and a subset of the encoded packets
5 including timing information arriving at least every predetermined time period;
6 a timing field adder to add a storage timing field to the encoded packet in the storage
7 area;
8 a timing generator;
9 a determiner to determine whether the encoded packet in the storage area includes the
10 timing information; and
11 a packet storer for storing the encoded packet, including the storage timing field, onto the
12 medium, wherein:
13 the timing field adder includes a timing field storer for reading and storing a value of the
14 timing information into the storage timing field and resetting a value in the timing generator
15 when the determiner determines that the encoded packet in the storage area includes the timing
16 information, and the timing field storer for reading and storing the value of the timing generator
17 into the storage timing field when the determiner determines that the encoded packet in the
18 storage area does not include the timing information.

1 12. (Original) The apparatus of claim 11, wherein the received encoded packet is in an
2 MPEG2 format.

1 13. (Original) The apparatus of claim 11, wherein the storage timing field includes a 42
2 bit timing value.

1 14. (Original) The apparatus of claim 11, wherein the predetermined time period is 100
2 milliseconds.

1 15. (Original) The apparatus of claim 11, wherein when the timing field storer resets the
2 value in the timing generator, the timing generator is reset to the value in the timing information.

16-20. (Cancelled)

1 21. (Original) A method for storing and retrieving multimedia information, comprising:
2 receiving encoded packets of the multimedia information, a subset of the encoded packets
3 including timing information arriving at least every predetermined time period;
4 adding storage timing fields to respective corresponding encoded packets;
5 when the corresponding encoded packet does not include the timing information, storing
6 a value from a receive timing generator into a given storage timing field;
7 when the corresponding encoded packet includes the timing information, storing a value
8 from the timing information of the corresponding encoded packet into the given storage timing
9 field and resetting the value in the receive timing generator; and
10 storing the corresponding encoded packet onto a medium;
11 reading a signal recorded on the medium, the signal representing encoded packets of
12 multimedia information;
13 comparing a value in a given storage timing field of a respective read corresponding
14 encoded packet to a value from a send timing generator; and
15 removing the given storage timing field from the read respective corresponding encoded
16 packet and outputting the respective corresponding encoded packet to a decoder when the act of
17 comparing indicates that a respective transmission time has been reached.

1 22. (Original) The method of claim 21, wherein the received respective corresponding
2 encoded packet and the outputted respective corresponding encoded packet are in an MPEG2
3 format.

1 23. (Original) The method of claim 21, wherein the storage timing fields include a 42 bit
2 timing value.

1 24. (Original) The method of claim 21, wherein the predetermined time period is 100
2 milliseconds.

1 25. (Original) The method of claim 21, wherein the respective transmission time is a
2 time which is a second predetermined time period earlier than a time indicated by the value in the
3 respective storage timing field.

1 26. (Previously Presented) An apparatus for storing multimedia information to a
2 medium and retrieving the multimedia information from the medium, the apparatus comprising:
3 a storage area for storing a received encoded packet of a plurality of encoded packets, the
4 encoded packets including the multimedia information, and a subset of the encoded packets
5 including timing information arriving at least every predetermined time period;
6 a timing field adder to add a storage timing field to the encoded packet in the storage
7 area;
8 a receive timing generator;
9 a determiner to determine whether the encoded packet in the storage area includes the
10 timing information;
11 a packet storer for storing the encoded packet, including the storage timing field, onto the
12 medium;
13 a receiver for receiving a read signal from the medium, the signal representing the
14 encoded packet of multimedia information, the encoded packet including the storage timing field;
15 a send timing generator;
16 a comparer for comparing the value in the storage timing field to a timing value from the
17 send timing generator; and
18 a remover for removing the storage timing field from the encoded packet and outputting
19 the encoded packet to a decoder when the comparer indicates that a respective transmission time
20 has been reached, wherein:
21 the timing field adder includes a timing field storer for reading and storing a value of the
22 timing information into the storage timing field and resetting a value in the receive timing
23 generator when the determiner determines that the encoded packet in the storage area includes

24 the timing information, and the timing field storer for reading and storing the value of the receive
25 timing generator into the storage timing field when the determiner determines that the encoded
26 packet in the storage area does not include the timing information.

1 27. (Original) The apparatus of claim 26, wherein the received encoded packet and the
2 outputted encoded packet are in an MPEG2 format.

1 28. (Original) The apparatus of claim 26, wherein the storage timing field includes a 42
2 bit timing value.

1 29. (Original) The apparatus of claim 26, wherein the predetermined time period is 100
2 milliseconds.

1 30. (Original) The apparatus of claim 26 wherein the respective transmission time is a
2 time which is a second predetermined time period earlier than a time indicated by the value in the
3 respective storage timing field.

1 31. (Original) The apparatus of claim 26, wherein when the timing field adder resets the
2 value in the receive timing generator, the receive timing generator is reset to the value of the
3 timing information.

1 32. (Original) A machine-readable medium having recorded therein machine-readable
2 information, such that when the machine-readable information is read and executed by a
3 processor within a storage device for storing multimedia information, the processor is caused to
4 direct the storage device to:

5 receive encoded packets of the multimedia information, a subset of the encoded packets
6 to include timing information arriving at least every predetermined time period;

7 add storage timing fields to respective corresponding encoded packets;

8 when the corresponding encoded packet does not include the timing information, store a
9 value from a timing generator into a given storage timing field;

10 when the corresponding encoded packet includes the timing information, store a value
11 from the timing information of the corresponding encoded packet into the given storage timing
12 field and reset the value in the timing generator; and
13 store the encoded packet onto the medium.

1 33. (Original) The machine-readable medium of claim 32, wherein the received encoded
2 packets are in an MPEG2 format.

1 34. (Original) The machine-readable medium of claim 32, wherein the given storage
2 timing field includes a 42 bit timing value.

1 35. (Original) The machine-readable medium of claim 32, wherein the predetermined
2 period is 100 milliseconds.

36-40. (Cancelled)

1 41. (Previously Presented) The method of claim 1, wherein the received encoded packets
2 are transmitted in a transport stream.

1 42. (Previously Presented) The method of claim 1, wherein the subset of the encoded
2 packets include a program clock reference field that carries the timing information, and another
3 subset of the encoded packets exclude a program clock reference field that carries the timing
4 information.

1 43. (Previously Presented) The method of claim 1, wherein the storage timing fields are
2 appended to the beginning of the respective corresponding encoded packets.

1 44. (Previously Presented) The method of claim 1, wherein the predetermined time
2 period does not exceed 100 milliseconds.

1 45. (Previously Presented) The method of claim 1, wherein the multimedia information
2 includes video content.

1 46. (Previously Presented) The method of claim 1, wherein the multimedia information
2 includes audio content.

1 47. (Previously Presented) The method of claim 1, wherein the medium is a hard disk.

1 48. (Previously Presented) The method of claim 1, wherein the medium is an optical
2 disk.

1 49. (Previously Presented) The method of claim 1, wherein the medium is a magnetic
2 tape.

1 50. (Previously Presented) The method of claim 1, wherein the medium is a writable
2 CD.

51-60. (Cancelled)

1 61. (Previously Presented) The apparatus of claim 11, wherein the received encoded
2 packet is transmitted in a transport stream.

1 62. (Previously Presented) The apparatus of claim 11, wherein the subset of the encoded
2 packets include a program clock reference field that carries the timing information, and another
3 subset of the encoded packets exclude a program clock reference field that carries the timing
4 information.

1 63. (Previously Presented) The apparatus of claim 11, wherein the storage timing field is
2 appended to the beginning of the encoded packet.

1 64. (Previously Presented) The apparatus of claim 11, wherein the predetermined time
2 period does not exceed 100 milliseconds.

1 65. (Previously Presented) The apparatus of claim 11, wherein the multimedia
2 information includes video content.

1 66. (Previously Presented) The apparatus of claim 11, wherein the multimedia
2 information includes audio content.

1 67. (Previously Presented) The apparatus of claim 11, wherein the medium is a hard
2 disk.

1 68. (Previously Presented) The apparatus of claim 11, wherein the medium is an optical
2 disk.

1 69. (Previously Presented) The apparatus of claim 11, wherein the medium is a magnetic
2 tape.

1 70. (Previously Presented) The apparatus of claim 11, wherein the medium is a writable
2 CD.

71-80. (Cancelled)

1 81. (Previously Presented) The method of claim 21, wherein the received encoded
2 packets are transmitted in a transport stream.

1 82. (Previously Presented) The method of claim 21, wherein the subset of the encoded
2 packets include a program clock reference field that carries the timing information, and another
3 subset of the encoded packets exclude a program clock reference field that carries the timing
4 information.

1 83. (Previously Presented) The method of claim 21, wherein the storage timing fields are
2 appended to the beginning of the respective corresponding encoded packets.

1 84. (Previously Presented) The method of claim 21, wherein the predetermined time
2 period does not exceed 100 milliseconds.

1 85. (Previously Presented) The method of claim 21, wherein the multimedia information
2 includes video content.

1 86. (Previously Presented) The method of claim 21, wherein the multimedia information
2 includes audio content.

1 87. (Previously Presented) The method of claim 21, wherein the medium is a hard disk.

1 88. (Previously Presented) The method of claim 21, wherein the medium is an optical
2 disk.

1 89. (Previously Presented) The method of claim 21, wherein the medium is a magnetic
2 tape.

1 90. (Previously Presented) The method of claim 21, wherein the medium is a writable
2 CD.

1 91. (Previously Presented) The apparatus of claim 26, wherein the received encoded
2 packet is transmitted in a transport stream.

1 92. (Previously Presented) The apparatus of claim 26, wherein the subset of the encoded
2 packets include a program clock reference field that carries the timing information, and another

3 subset of the encoded packets exclude a program clock reference field that carries the timing
4 information.

1 93. (Previously Presented) The apparatus of claim 26, wherein the storage timing field is
2 appended to the beginning of the encoded packet.

1 94. (Previously Presented) The apparatus of claim 26, wherein the predetermined time
2 period does not exceed 100 milliseconds.

1 95. (Previously Presented) The apparatus of claim 26, wherein the multimedia
2 information includes video content.

1 96. (Previously Presented) The apparatus of claim 26, wherein the multimedia
2 information includes audio content.

1 97. (Previously Presented) The apparatus of claim 26, wherein the medium is a hard
2 disk.

1 98. (Previously Presented) The apparatus of claim 26, wherein the medium is an optical
2 disk.

1 99. (Previously Presented) The apparatus of claim 26, wherein the medium is a magnetic
2 tape.

1 100. (Previously Presented) The apparatus of claim 26, wherein the medium is a
2 writable CD.

1 101. (Previously Presented) The machine-readable medium of claim 32, wherein the
2 received encoded packets are transmitted in a transport stream.

1 102. (Previously Presented) The machine-readable medium of claim 32, wherein the
2 subset of the encoded packets include a program clock reference field that carries the timing
3 information, and another subset of the encoded packets exclude a program clock reference field
4 that carries the timing information.

1 103. (Previously Presented) The machine-readable medium of claim 32, wherein the
2 storage timing fields are appended to the beginning of the respective corresponding encoded
3 packets.

1 104. (Previously Presented) The machine-readable medium of claim 32, wherein the
2 predetermined time period does not exceed 100 milliseconds.

1 105. (Previously Presented) The machine-readable medium of claim 32, wherein the
2 multimedia information includes video content.

1 106. (Previously Presented) The machine-readable medium of claim 32, wherein the
2 multimedia information includes audio content.

1 107. (Previously Presented) The machine-readable medium of claim 32, wherein the
2 medium is a hard disk.

1 108. (Previously Presented) The machine-readable medium of claim 32, wherein the
2 medium is an optical disk.

1 109. (Previously Presented) The machine-readable medium of claim 32, wherein the
2 medium is a magnetic tape.

1 110. (Previously Presented) The machine-readable medium of claim 32, wherein the
2 medium is a writable CD.

111-120. (Cancelled)

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